

APPENDIX I

UPPER CONNECTICUT RIVER - Mascoma

WATERSHED

(HUC8: 01080104)

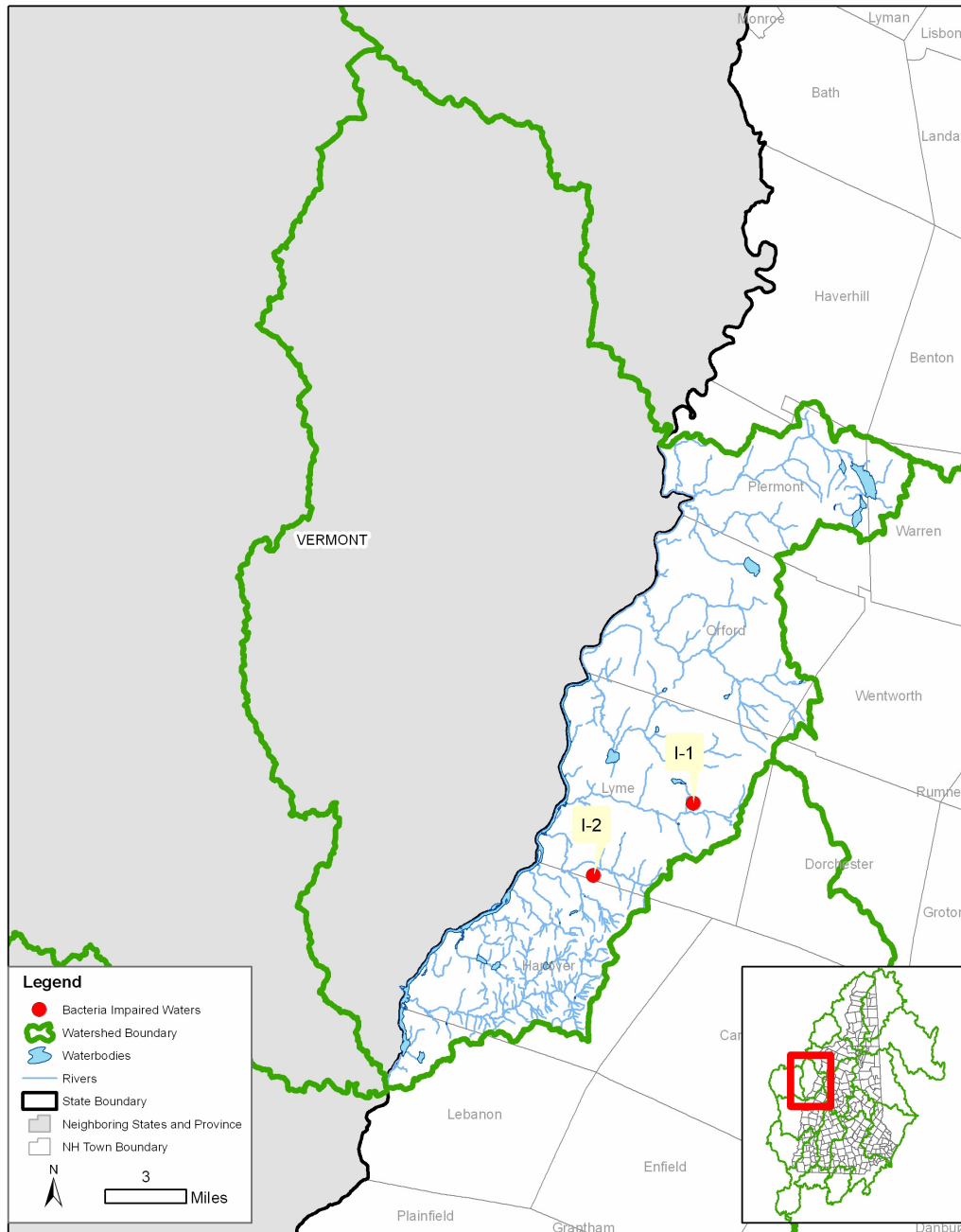
I. WATERSHED DESCRIPTION AND MAPS

This section of the Connecticut River Watershed covers an area of approximately 225 square miles centered along the Vermont-New Hampshire border. There are 8 towns located at least partially within the watershed which are, from north to south: Haverhill, Piermont, Warren, Orford, Wentworth, Lyme, Hanover, and Lebanon. As shown in Figure 1, the primary watercourse in the region is the Connecticut River which flows south from Piermont to Lebanon, NH along the VT-NH border. The watershed is 29.4 miles long by 12.3 miles wide at its widest point. Notable mountains in the area include the Moose Mountains along the eastern border and other independent landforms. Lake Tarleton is the largest waterbody, located in the northeast section of the watershed.

Based on the 2012 303(d) list, two assessment units (AUs) in this watershed are listed as being impaired for bacteria. The location of the bacteria impaired surface water AUs are shown on Figure 1 as red circles. Items I1 through I2 present the percent reduction needed to meet each water quality criterion (and TMDL), based on the highest recorded bacteria measurement that exceeds the criterion for the AU, as well as the bacteria data collected in the impaired AUID that was used to list the AU as impaired on the 2012 303(d) list.

FIGURE 1:

Upper Connecticut-Mascoma River Watershed HUC 8 Watershed ID Number 01080104



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I1: Unnamed Brook

AUID NHRIV801040204-06

Characteristics: freshwater, class B designation, primary contact recreation.

Impairment: *E coli*

Water Quality Criteria & TMDL for *E coli*

Single sample: 406 CTS/100Ml

Geometric mean: 126 CTS/100mL

Percent reduction to meet TMDL:

Single sample: 97%

Geometric mean: no data

Data: NHDES EMD, 2012 303(d)

Single sample *E coli* results (CTS/100ML)

Station Name	Station ID	Date	Result
UNAMED BROOK	2224-001	6/7/10	440
UNAMED BROOK	2224-001	12/3/09	14100
UNAMED BROOK	2224-001	10/01/10	3000
UNAMED BROOK	2224-001	4/13/11	50
UNAMED BROOK	2224-001	10/26/11	6000

Shaded cells indicate exceedance of water quality criteria

I2: Hewes Brook

AUID NHRIV801040402-04

Characteristics: freshwater, class B designation, primary contact recreation.

Impairment: *E coli*

Water Quality Criteria & TMDL for *E coli*

Single sample: 406 CTS/100Ml

Geometric mean: 126 CTS/100mL

Percent reduction to meet TMDL:

Single sample: 80%

Geometric mean: 67%

Data: NHDES EMD, 2012 303(d)

Single sample *E coli* results (CTS/100ML)

Station Name	Station ID	Date	Result
HEWES BROOK	09-HEW	6/21/10	30
HEWES BROOK	09-HEW	7/20/10	250
HEWES BROOK	09-HEW	8/10/10	2000
HEWES BROOK	09-HEW	9/2/10	130

Shaded cells indicate exceedance of water quality criteria

Geometric mean *E. coli* results (CTS/100ML)

Station Name	Date	Result
HEWES BROOK	8/10/10	246.62
HEWES BROOK	9/2/10	402.07

Shaded cells indicate exceedance of water quality criteria